

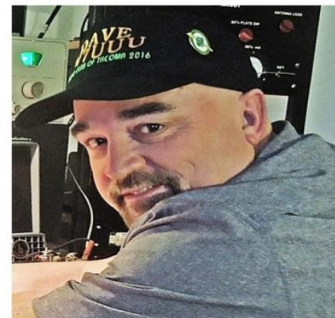
## Elections are over and a Time for Thanks; Awards Banquet Reminder

Hard to believe another Holiday Season is upon us! In fact, it seems to me like the RCT Summer Picnic was just a few weeks ago. And behind us also, are the Radio Club of Tacoma elections. I would like to offer a big thanks to those who ran for re-election to their positions - three Board of Directors members (Paul Matney, W7PFU, Bruce Hanson, WE7P and Adam Barbera, W2NCC), Vice President (Mike Mikuchonis, W7XTZ), and to Mike Drorbaugh, W7MKE for stepping up to fill the position of the departing Secretary, Mike Finnie, W7MWF. Perhaps next election cycle, we will see some new faces take a swing at getting elected! Honorary mention goes to Chris Maher N7CPM who made a great run at a Board position, losing by only a few votes.

In the spirit of thanks engendered by the season, I want to give a very heart-felt thanks to all those members who serve our club. In any such organization, it's the care, attention, and hard work of many volunteers giving of their time and skills that really make it *work*. With all of our many committee positions, club officers, and as Rich Patrick KR7W likes to call them, the "Worker Bees" who quietly make things happen, we have a terrific organization putting in countless dedicated hours to keeping things running. Without the generous donation of time and hard work, we never would have made it to be 103 years old. So from me to all of you, THANK YOU for all you do and have done to make our club what it is today.

There are always opportunities to step up and volunteer for one of the many standing committees, to help support and grow this club that means so much to all of us. In fact, coming up at the January, 2020 Board of Directors meeting, as President I will again be making my committee appointments for the coming year. Of course, many of the folks currently responsible for a committee will agree to be appointed for another term. But there will undoubtedly be a few vacancies. One that comes to mind is that of Refreshments Coordinator. Anne, N7ANN, has held the post for 5 ½ years and will be stepping down after the December 7<sup>th</sup> General Meeting. If you feel like that is a position you would like to take over, just let me or any other officer know your intentions.

## THE PRESIDENT'S CORNER



DAVE W7UUU

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Remember there will be a new BARK editor starting in January 2020. Please support Gary as you have me and send material to; [WG7X@arrrl.net](mailto:WG7X@arrrl.net)

November is also the month we turn our attention to issuing a formal “thanks” to all who have volunteered their time and energies over the past year in the form of certificates and awards at the upcoming W7DK Radio Club of Tacoma Awards and Holiday Banquet. It will be held at the same location as last year – Eagles Aerie #2933 located at 7037 South Pine Street in Tacoma (*not* the same Eagles where we hold the General Meeting!). The date is Sunday December 1<sup>st</sup>. The doors will open at 12:00 (please – no “earlies”) and lunch will begin about 12:30. As it has been for years, this event is a potluck. The club will be providing a roast turkey and spiral ham, along with soft drinks, coffee and tea. So feel free to bring whatever yummy dishes you think would make for a fine feast for all. The Awards Ceremony will begin at 1:00 PM and we hope to conclude by 3:00. Any who wish to stay behind to assist in cleanup and help restore the room to order will be greatly appreciated.

Lastly, please note that I misspoke at the October General Meeting. I was confused on the date of the banquet and said that it would combine with the December General Meeting. However, that is NOT CORRECT. **Our General Meeting will be held on the First Saturday of December which in fact is December 7<sup>th</sup>, at the usual location – Eagles Aerie #3 at 4810 South Tacoma Way.**

I wish everyone a wonderful Thanksgiving holiday and for those who still work, a glorious four-day weekend! I can assure you I’m very much looking forward to that myself.

I’ll be looking forward to seeing all of you at the upcoming Banquet and will be honored to hand out certificates of thanks and appreciation for all that you do. 73 for now,

Dave, W7UUU

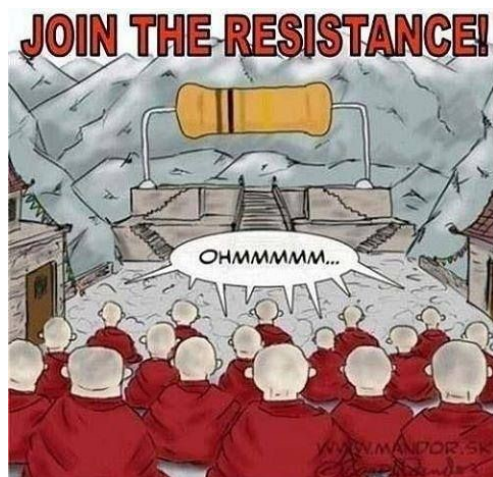
## NEW LOGGER’S BARK EDITOR GARY McADAMS, WG7X

I am happy to announce that Gary has volunteered to be the new *Logger’s BARK* editor.

Beginning in January 2020 Gary will assume the editor’s duties and I am sure he will do an admirable job. I hope you will welcome and support his efforts as you did mine. I leave the position knowing it is in good hands and looking forward to reading the newsletter each month. Gary requests that BARK materials be sent to [WG7X@arri.net](mailto:WG7X@arri.net)

Thank you all for helping me produce the Bark each month. pjh, ed.

Sent in by Bob Hesenberg, K7MXE



# *IT'S PARTY TIME*

## 2019 Radio Club of Tacoma Annual Awards Banquet Potluck

An annual Awards Banquet for members and their guests is held every December. The Awards Banquet is always an enjoyable social event, as well as an opportunity to publicly recognize and express appreciation for those members who have helped to advance the purposes of the Club.

This year the banquet will be held Sunday December 1, from 1PM to 3PM, at the South Tacoma Eagles Club Aerie #2933, 7037 South Pine Street (S 72nd and S Pine). **Doors will open at noon.**

**Please do not come early unless you are a designated helper.**

NOTE: this is **not the Eagles Aerie where we hold our general meetings**, although it is not far away from that location. Here's a [map](#).

For our meal, Radio Club of Tacoma will provide sodas and a main course. Other dishes will be pot luck.

### DOC SPIKE INSPIRATIONAL AWARD

This honor is awarded most years, in memory of Doctor F. Clifford Spike W7OS, an early member of the Radio Club of Tacoma whose long service and devotion to the club was the inspiration for the award. It is made to the Club Member who:

- best represents the true spirit of Amateur Radio,
- inspires others to promote and insure current and future success of the Radio Club of Tacoma and
- has devoted tireless efforts in support of Club operations.

The Club maintains a Doc Spike Inspirational Award Plaque listing the names of recipients and the year they were awarded this honor. *Ed. Note; the plaque is displayed in the clubhouse classroom.*

### PRESIDENT'S AWARD

This award may be made by the President annually to the person that the President believes has contributed significantly to the mission and purposes of the Radio Club of Tacoma over the past year. Members may nominate candidates for consideration by the President.

FOR MORE INFORMATION CONTACT;

Dave Ellison, W7UUU

President

[w7uuu@w7dk.org](mailto:w7uuu@w7dk.org)



# ARES MATTERS

Amateur Radio Emergency Service (ARES)  
Western Washington Section  
District 5, Pierce County ARES  
[www.PierceCountyARES.net](http://www.PierceCountyARES.net)



## Greetings fellow Hams!

ARES MATTERS provides information about amateur radio emergency communications, and Pierce County District 5 ARES activities and events courtesy of Radio Club of Tacoma, Loggers Bark. Amateur Radio Emergency Service (ARES) is an ARRL organization dedicated to Amateur Radio Emergency Communication through proficiency and preparedness.

## When You Need Amateur Radio, You Really Need It!

### ARES Background

Pierce County ARES manages local ARES activity, training, exercises, and proficiency development. Pierce County ARES supports and meets at the Pierce County Emergency Operations Center every third Thursday, at 7PM.

### Future meetings, current events, and items of Ham radio interest:

Lots of great amateur radio proficiency enhancement opportunities and fun are scheduled for District 5 ARES members during the next few months:

**November 21<sup>st</sup>** Pierce County Emergency Operations Center (EOC), monthly meeting, crossband repeater operations taught by DEC Stan Nelson, K7DKK

**December 7<sup>th</sup>**, Washington State EOC to EOC (E2E) drill (please contact your EC/RO for more information)

**December 19<sup>th</sup>**, PCEOC monthly meeting, mobile antennas and operating class (first time offered) taught by Mark Yordy W7BBO

**SPECIAL NOTICE:** Attending members are reminded enhanced security protocol procedures are now in place. Members must show and wear their Washington State Emergency Worker Card while in the EOC. Nonmembers are still welcome; we will provide badging on-site. Not an ARES member and want to be? No problem. E-mail me, Gary Emmons, KH2AY, District 5 PIO at [newsletter@piercecountyares.net](mailto:newsletter@piercecountyares.net) and I'll help you get started.

### Patrick Niles, N7SOI, Assistant Training Officer for District 5, ARES, reflects on ARES accomplishments in 2019:

As we are concluding another great year of training and support to our served agencies, Pierce County ARES is diligently working towards improving our infrastructure, our relationships with our served agencies, and support to the community. Washington State Emergency Management is prioritizing Amateur Radio training and use in the leadup to the next FEMA Region X's Cascadia Rising Full Scale Exercise (FSE). The next Cascadia Rising FSE will be conducted in 2022 (CR-2022), and Washington State is increasing its expectations of the Amateur Radio community to support these efforts.

As we move into the new year, more municipal Emergency Operations Centers (EOC) are receiving funding for their Amateur Radio equipment. Currently the City of Bonney Lake is awaiting equipment installation and

the city of Edgewood was just approved for funding. As more municipal EOCs are coming online, the need for operators is growing, so too are the demands on the infrastructure in Pierce County. Pierce County ARES is continually trying to improve its infrastructure through various initiatives. We have added two new repeaters this year, and we are working to relocate another to a better location to improve coverage. We are also working on improving the WINLINK infrastructure within Pierce County to alleviate pressure on our single Gateway.

In the coming year we highly encourage anyone interested in becoming a member, or members who may not be active, to attend training sessions and exercises to facilitate Emergency Management within Pierce County and Washington State. Please don't wait until CR-2022 to participate. ARES has a robust training system available to support ARRL/ARES training requirements, as well as Pierce County ARES specific training. Please help us capitalize on improvements we have made over the last year as we move into 2020.

Pierce County District 5 Website: [http://](http://www.piercecountyares.net/web)

[www.piercecountyares.net/web](http://www.piercecountyares.net/web)

ARES Membership Application: [http://](http://www.piercecountyares.net/web/application)

[www.piercecountyares.net/web/application](http://www.piercecountyares.net/web/application)

Committed to our Community  
*When All Else Fails*



Gary Emmons

District 5 PIO

KH2AY

[newsletter@piercecountyares.net](mailto:newsletter@piercecountyares.net)

## ***On the Air – a new ARRL magazine for beginners***

The ARRL is launching a new magazine called “On the Air” aimed at introducing new and “beginner-to-intermediate” level radio amateurs to exploring the possibilities of the hobby. Each issue will include advice and insight on topics from the variety of Amateur Radio interests and activities: radio technology, operating, equipment, project building, and emergency communications. The new magazine will be published bi-monthly starting with the Jan/Feb 2020 issue. The new publication will be offered as an alternative publication selection when joining the ARRL or when renewing membership. All members will have digital access to both magazines.

“On the Air responds to the brand new, and not-so brand new radio amateur seeking ideas and answers,” says Editor Becky Schoenfeld, W1BXY, who is part of the ARRL staff team that developed the new magazine. The planning included an extensive national-level study of new Amateur Radio licensees, identifying their motivations for getting licensed and their experiences of getting started. A focus group responded positively to a trial sample edition of the magazine.

“Too many new licensees never take the next step,” says Schoenfeld. “We’re excited to introduce a new amateur radio magazine for this audience, aimed at getting them active, getting them involved, and getting them on the air.”



## Tacoma Radio Club assists BSA in Fall Camporee JOTA Event

Mike, W7MKE

On October 19<sup>th</sup> RCT members Mike Drorbaugh, W7MKE, Steve Blacksten, AD7VL and John Marsden, KI7YRC along with James Branch, KL7JBB from Troop 71 in Olympia, WA operated a JOTA station at the Camp Thunderbird Boy Scouts of America Fall Camporee. Approximately 500 scouts attended the camporee and about 30 scouts cycled through our location each half hour with the requested goal of 1.) Learning about amateur radio and 2.) listening to a Ham Radio Conversation and 3.) making a ham radio contact.

Our station setup included Steve Blacksten with an end fed antenna and an ICOM 706 capable of covering from 10-80M. James Branch setup with a 40M doublet and operated a YAESU 847. He also set up a demonstration CW straight key and bug which drew a lot of interest. Mike and John concentrated on 2M contacts both simplex and through the Capital Peak repeater. Scouts gained a general knowledge of how to operate a HT and 2M base station transceivers and made contacts with each other between the HT and base and also between the base and repeater and even occasionally, the HT and repeater. A few contacts with other scouts in Lacey, WA were made through the repeater. In this way, all the scouts got to make a 2M contact.

HF station operators concentrated on information about Ham Radio and were unable to hear East Coast JOTA stations. Unfortunately James was unable to break the East Coast pileup and make contacts with other JOTA stations. Due to limited time with each group of scouts, instead of radio contacts, Steve created a game using his large collection of QSL cards, asking the patrol leader to draw a card at random from the box of cards and try to find where the card came from on a world map.

It appeared that the scouts were generally well entertained and most seemed interested in amateur radio and there were at least two scouts who had their amateur radio licenses.



Steve, AD7VL & Red, WB7EC waiting out heavy rains during setup in his equipment trailer.



The setup awaiting the scouts.

Steve, AD7VL telling the scouts about Amateur Radio



More Pictures on Pg. 8

## RCT SALES ITEMS FOR NOVEMBER, 2019

NEW ITEMS IN RED

ITEM		PRICE
4. Heath Clock GS-1000		\$50.00
18. Yaesu HF PWR AMP FT-2100B		\$300.00
25. Kenwood XTAL Filter YG-455C-1		\$50.00
41. Suitcase with Tektronix scope camera		\$50.00
84. Comet Triplexer CFX-514		\$40.00
94. TEN TEK HF XCVR UNI 6+		\$400.00
94A. TEN TEK Power Supply OMNI PS	P/O # 94	
101. Timewave TNC Terminal DSP-9+		\$25.00
110. Kenwood HF XCVR TS-850S SN: 70100203		\$300.00
112. SWAN SWR METER WM-2000		\$75.00
114. Astron Power Supply RS-12A		\$25.00
115. Rohn tower six sections/ rotor top section		\$450.00
116. Hammarlund HF RX HQ-105TR		\$100.00
118. Comet mobile ant UHF-4		\$75.00
119. Elecraft HF XCVR K1 TWO bands	15/40 /AT	\$300.00
127. Mirage 2 MTR AMP B-1016G		\$200.00
128. MFJ Power Supply MFJ 4245MV		\$100.00
129. Kenwood Microphone MC-50		\$75.00
131. ICOM HF XCVR IC- 706	SN: 8973	\$500.00
133. YAESU HF XCVR FT-990	SN: 11060244	\$600.00
135. MFJ Ant Tuner MFJ 949E	SN: NA	\$75.00
136. Yaesu Rotor Controller G-800SDX	SN: NA	\$55.00
137. Wilson TWR Section TT-114 11'	SN: NA	\$25.00
138. Kenwood HF RX R-599D	SN: 530265	\$150.00
141. Hallicrafters HF Receiver SX-100/SPKR		\$100.00
142. Vibroplex Keyer/bug	SN: 245832	\$75.00
143. Vibroplex Keyer/bug	SN: 209216	\$75.00
145. Speedex Keyer/bug	SN: NA	\$50.00
146. Heathkit HF Transmitter, DX-20	SN: NA	\$75.00
147. DX Engineering Remote Coax Control Switch CC-8		\$400.00
148. DX Engineering Coax Switch RR8-HP	P/O #147	
149. Kenwood HF XCVR TS-930S	SN: 2120327	\$600.00
150. Kenwood Speaker SP 930	P/O #149	
151. Kenwood MIC MC-60	P/O #149	
152. Kenwood Power Supply PS-30	P/O #149	
153 Yaesu HF XCVR FT-950	SN: 800080048	\$600.00
154. Yaesu Speaker SP-6	P/O #153	

The items listed above are available for purchase or inspection at the Radio Club of Tacoma's clubhouse on or at any Saturday Open House from 10:00am to 2:00pm. All items have been inspected and tested for basic operation and any deficiencies are clearly marked. Please see Red Cranefield WB7EC, [wb7ec@w7dk.org](mailto:wb7ec@w7dk.org) or one of the club PMT members for assistance. New donations are gratefully accepted.





PMT items listed above in the red section. On the left, item 149 through 152, Kenwood TS-930S, Speaker SP 930, Power Supply, PS-30, and Mic MC-60. On the right are items 153 & 154, YAESU FT950 transceiver and matching speaker SP-6.



James Branch, KL7JBB instructs scouts in front of his 40M station

## Additional Pictures of the Boy Scouts Fall 2019 JOTA Camporee



Plenty of excitement to use 2M Base Radio and talk to friends nearby but out of sight using the HT



## Beginner's Corner - Impedance Matching by P. J., N7PH

A new technician club member posed some questions to a few older members at the Saturday Open House seeking information toward getting an antenna erected and matching it to a transceiver. His questions were about cutting to length, SWR, using a tuner and why/how, open transmission lines, coax, etc. It all comes back to impedance and matching same. I got to thinking later that that subject was probably high on the list of unknowns for the starting amateur. A deeper understanding can be obtained from the ARRL Handbook, internet publications, or other books in the club's library. Here is a basic overview.

Impedance matching is often misunderstood. Let's look at impedance matching in our antenna systems and where a matched or unmatched condition might need attention. Impedance matching is important in two separate instances: the transmitter to transmission line match and the transmission line to antenna match.

Typically our transmitters have an output impedance of 50 ohms. Or maybe the transmitter specifications say that the transmitter will deliver 100 watts, for example, into a 50 ohm load, which is the same thing. What does that mean? What is the significance of 50 ohms?

Recall that power is voltage times current:  $P = E \times I$ . Also from Ohm's Law, voltage is current times resistance:  $E = I \times R$ . Therefore, we can calculate the needed voltage and current from power and resistance using  $I = \sqrt{P / R}$  and  $V = \sqrt{P \times R}$ . Say we have a transmitter output of 100 watts. If the transmitter is connected to a 50 ohm dummy load, then we can calculate that the current is 1.414 amps and the voltage is 70.721 volts, forgetting about whether that is peak, average, RMS or whatever. (You can check that  $1.414 \times 70.721 = 100$ ). This means that the circuit designer is saying that the transmitter will generate 1.414 amps at 70.721 volts, which is what is needed to output 100 watts into a 50 ohm load. And that's all it means.

What happens if we want to put 100 watts into a different load, say 25 ohms or 100 ohms? You can calculate that for a 25 ohm load, it will be 2 amps and 50 volts or for a 100 ohm load it will be 1 amp and 100 volts. Similarly, we can calculate the current and voltage required to generate 100 watts into any load. In the case where we exceed the transmitters' limits we run the risk of damaging it, sometimes catastrophically.

In order to get the most power out of the transmitter, it is necessary that the transmitter is connected to a 50 ohm load. If the load impedance is different, then the transmitter will require either more current or more voltage. We are simply making sure that the transmitter is operating within its specifications. Nothing more.

When should we match the transmitter to the transmission line? If the transmitter is generating full power into the line, there is no more power available. Spending time and effort improving the match will not increase the power output of the transmitter. If the transmitter is generating less than maximum power however, improving the match will allow it to generate more. In that case the effort may be worthwhile.

The transmission line is what delivers power from the transmitter to the antenna. Every common type of transmission line has a characteristic impedance. When you hear of 50 ohm coax or 75 ohm cable or 300 ohm twin lead, the 50, 75 and 300 ohm numbers refer to the characteristic impedance of the particular transmission line. It can be shown that when a transmission line is terminated in a load that matches its characteristic impedance, the power is totally absorbed in the load. That's what we want from our antenna systems. However, if the line is terminated in an impedance that is not the same as its characteristic impedance, then the power is not totally absorbed and some of it is reflected back down the line toward the transmitter.

When it reaches the transmitter, it is again reflected back towards the load. This process of reflecting power back and forth between the transmitter and load eventually leads to a stable condition where a distribution of current exists on the transmission line. The power all eventually gets absorbed by the load, but in the meantime there is a higher current on the transmission line than need be. A higher current means more losses within the transmission line, due to wire resistance and other effects. When the load is not matched to the transmission line, there will be more losses in the line. Remember that power losses are represented by  $I^2 R$ , so doubling the current will cause  $2 \times 2 = 4$  times more losses. The current reflected back and forth creates what are called standing waves on the transmission line. That means that the voltage and the current magnitudes vary along the line when the load is not equal to the characteristic impedance of the line. We can use an SWR (Standing Wave Ratio) meter to measure the magnitude of these waves. The SWR meter gives the ratio of the highest and lowest voltage along the line, which is the same as the ratio of the highest to lowest currents on the line. A perfect match is a standing wave ratio of 1:1; meaning that the highest and lowest voltages and currents are equal and thus there is no variation along the line.

When should we be worried about matching our antenna, which is the load, to the transmission line? As shown in most books about antennas and transmission lines, the power losses on the line depend on the line length, the type of transmission line, the frequency and the SWR on the line. So, in order to determine whether the losses due to mismatch are significant it is necessary to determine the feedline losses.

Parallel lines, twin lead, ladder line, normally have a relatively low loss and are not severely affected by high SWR or mismatch. Generally speaking, rarely will there be a major benefit from improving the match to parallel lines, unless the frequency is very high or the line is very long, or the mismatch is very large. At normal HF frequencies and lines less than 100 feet long, the improvement will usually not be noticeable. Coaxial cables, however, generally have a higher loss and are more dramatically affected by high SWR and mismatch. For longer lines and higher frequencies, improving the match between the antenna and the coax feed line may very well yield a significant improvement in antenna performance by reducing transmission line losses.

Finally, matching the transmitter to the transmission line and matching the transmission line to the antenna serve two very different purposes. Note that matching the transmission line to the antenna may well ensure that all power is absorbed by the antenna and therefore radiated, but it will not ensure that the transmitter is operating at maximum efficiency. Likewise, matching the transmitter to the transmission line will not affect the transmission line losses, since those are determined only by the match between the transmission line and antenna.

← Randy, WB4SPB hosts the scouts and chaperones and demonstrates Morse code. →



## Gadget Review— CW Key Kits from American Morse Equipment

As with most clubs or Amateur Radio Organizations the membership is split pretty much 60—40 on operating Morse Code, CW. Many of us had to learn it for our exams while newer members did not have that pleasure. I would like to think that even those hams who do not operate 'code' at least have a key somewhere in their shack. The question often asked is "what key should I get?" followed by "How much does one cost?" The answer, my friend, is blowin in the wind... Before plunking down your hard earned money on a blind choice try out a bunch of the varied examples of keys and paddles around the clubhouse and or ask the CW members to bring in their favorite key for you to try out. Keep in mind that the PMT has keys available that you can try out. The cost is literally what ever you want to spend and ranges from free to thousands of bucks.

I thought I'd present a straight key and a paddle for your viewing enjoyment. I can recommend both of these keys and while I do not own either, I have used, built, and modified both.

American Morse Equipment offers over 12 different keys and kits ranging from small and compact portable types to full on bench keys. There are straight keys, paddles, and keyer kits. They come with very complete photographic instructions and are easy to assemble with only hand tools even if you are all thumbs.

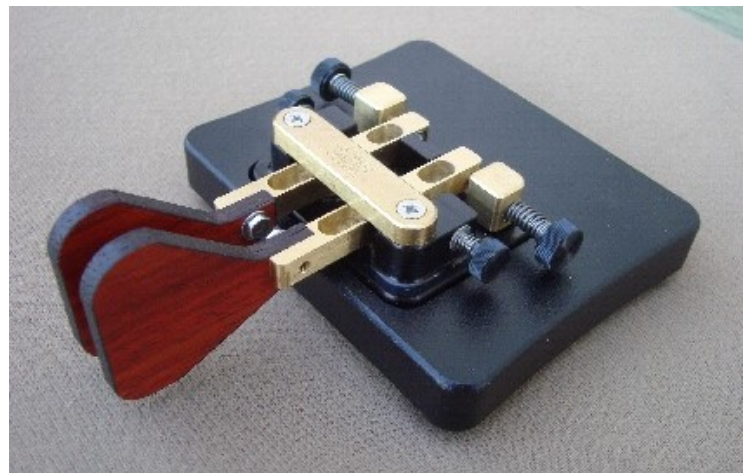
KK1B Straight Key Kit - \$60.00 (\$55 + \$5 shipping). Somewhat on the small side, machined from brass and aluminum, it is fully adjustable and balanced so it does not jump up and down in use. It is tapped for mounting if you require a bigger/heavier base. Comes with a lifetime guarantee. Nicely machined and smooth in use and is American made.



SFP Iambic Paddle - \$139.00 + \$13 shipping. This key is very much like the Vibroplex Code Warrior design but I thought it to be more precisely fitted and it felt better to operate. It comes fully assembled with nickel plated contacts, nice hardwood finger pieces, independent adjustable spacing on each arm and all stainless steel hardware. It also comes with a Life-time Guarantee and is USA made.

For more info go to;

<mailto:doug@americanmorse.com>



**Radio Club of Tacoma  
Board of Directors Meeting Minutes  
October 2, 2019**

**Meeting called to order** at 1900 PDT by President Dave W7UUU.

**Officers and Directors Present**

President	Dave Ellison, W7UUU
Vice President	Mike Mikuchonis, W7XTZ
Secretary	Mike Finnie, W7MWF
Treasurer	Steve Dightman, AF7YD
Board	Bruce Hanson, WE7P
Board	Paul Matney, W7PFU
Board	Adam Barbera, W2NCC
Board	Red Cranefield, WB7EC
Board	Phil Pia, K7PIA

**Quorum** A quorum was seated. There were 13 names on the attendance list, a copy of which is filed with these minutes.

**Silent Key or Illness** None reported.

**Approval of Minutes** The minutes of the meeting of September 4, 2019 were approved as circulated.

**Secretary's Report** Mike, W7MWF reported receipt of the usual stuff: Periodicals, utility bills, bank statements, Salmon Run Donations. Several new/reinstated members.

**Treasurer's Report** Steve, AF7YD reported that payments and deposits are current and that over \$3600 has been collected for Salmon Run donations. Steve reminded everyone that he would be out of the country until near the end of October.

**Committee / Reports**

Membership George K7GRS reported that membership stands at 280. Renewal forms will be sent out in November. George also reported that he has migrated the membership databases to a Windows operating environment.

Training The next scheduled class will be held October 5/6  
VE Testing will be held October 8.

Info Tech and Website Randy, WB4SPB reported the VHF/UHF computer in the Lou Room is still non-operational. An offer for donation of a replacement may be forthcoming. The website management software has been upgraded and will offer several enhanced features, such as a calendar page and photo galleries.

HF Operations Phil K7PIA advised that all equipment is operational. New monitors have been installed and custom desks and shelving built. Kudos to Rich, KR7W and Al, N7OMS for their carpentry skills throughout this ongoing remodel project. A new 30 meter vertical dipole has been erected and reports are that it is



working satisfactorily.

A clean sweep was accomplished during Salmon Run, with the club garnering 200,700 points on 3 bands with 15 operators participating. A copy of the Salmon Run statistics is filed with these minutes.

Repeater Ops There were no reports of problems. Mike, W7XTZ has had reports that his transmissions sound excessively scratchy. Keep an ear out for him and provide signal quality reports to him.

Facilities Mgmt Adam, W2NCC reports that the parking lot gate has been repaired and will be re-installed shortly. Wasps have been noticed invading the siding on the south wall and will be dealt with.

The HF power circuitry is still a work in progress.

Property Mgmt Red, WB7EC reported surplus property sales in September of \$446 and raffle ticket sales of \$45. There have been no donations of equipment this month, and no request for disposition approval was submitted.

Museum On behalf of the museum, Randy, WB4SPB reported that the museum operating station participated in the Classic Exchange, and made several QSOs. Remodeling the museum is in progress, with several new tables having been built by Rich, KR7W. The old typewriter will be kept as a display item, with the old roll-top desk being removed and disposed of, with method of disposition to be determined in the future.

Weds Workshop The September 4<sup>th</sup> Wednesday Activity Night was a show and tell event. The October workshop content is still to be determined.

General Meeting TBA

### **Unfinished Business**

Verna, KF7SCB has volunteered to be the General Meeting Program Coordinator beginning in January, 2020. Gary, WG7X has offered his services to undertake the compilation and editing of The Loggers Bark beginning in January, 2020. A volunteer is still needed to replace Anne, N7ANN as the host/hostess for the General Meetings.

Steve, AF7YD, Mike, W7MKE and Steve, AD7VL provided updates on Radio Club of Tacoma participation in the upcoming Pacific Harbor Scout Jamboree Oct 19. Mike and Steve, AD7VL will be on-site at Camp Thunderbird working with the scouts, and will be circulating information prior to the event on how members can make operational contributions to the event via the airwaves.

### **New Business**

It was proposed purchase of at least 2 copies of licenses for Microsoft Publisher @ \$64 each. One copy will be designated for the Bark editor; one copy will be installed on a RCT computer for in-house use. It was moved, seconded, and approved by voice vote to acquire 3 copies of the program at \$64, with the purchase to be facilitated by Steve, AF7YD through TechSoup.

### **Activity Reports and Discussion Topics**

State Fair reports were that although the venue and facilities were less than ideal, it was considered a worthwhile event in which to have participated. Operation of the Flex radio via remote control was deemed successful.

Salmon Run report previously covered in HF Committee report.

Election of club officers in November. October General Meeting is last call nomination of candidates.

**Announcements**

Upcoming Annual Holiday Party and Awards Banquet will be held December 1, same venue as last year.

**Adjournment** was at 2001 PDT.

**Radio Club of Tacoma  
General Meeting Minutes  
October 5, 2019**

**Meeting called to order** at 1330 PDT by President Dave W7UUU at **Tacoma Eagles Aerie #3, 4810 South Tacoma Way.**

**Officers and Directors Present:**

President	Dave Ellison, W7UUU
Secretary	Mike Finnie, W7MWF
Treasurer	Steve Dightman, AF7YD
Board	Red Cranefield, WB7EC
Board	Phil Pia, K7PIA

**Pledge of Allegiance:** Led by Dave, W7UUU

**Welcome and Self-Introductions:**

Guests           None introduced

New Calls       None reported

Self-introductions were completed. There were 25 names on the attendance roster, a copy of which is filed with these minutes.

**Health and Welfare:** Al Churchill, AC7BU is reported to be “under the weather”.

**Secretary’s Report:** Mike, W7MWF reported receipt of the usual stuff: Periodicals, utility bills, bank statements, Salmon Run donations, and pledges are coming in plus new member applications and a few renewals/reinstatements.

**Treasurer’s Report:** Steve AF7YD reported all bills paid and that there is a deposit pending. Steve reminded everyone he would be out of the country until the end of October.

**President’s Report:** Dave, (W7UUU);

Volunteers needed for positions to be vacated the end of 2019:

General Meeting Program Coordinator – Verna KF7SCB will be our new program coordinator beginning in January 2020. Thanks Verna!

Bark Editor; Gary McAdam, WG7X has agreed to again serve as bark editor. Thanks Gary for again putting forth your creative efforts.

General Meeting Refreshments host/hostess – Anne N7ANN is retiring at the end of the year. We still need a member to volunteer to fill take care of this task each month.

**Nominations:** The president reported the Nominating Committee results of the candidates proposed for

election.

The President then called for nominations from the floor for additional candidates. Chris Maher N7CPM was nominated to fill a board seat, to which he agreed. There being no further nominations, they were closed. Ballots will be mailed in October and must be returned prior to the fall of the gavel at the General Meeting November 2. Ballots may be returned by mail, deposited in the Secretary's mail slot by the Clubhouse front door, or delivered to the Secretary at the November general meeting.

### **Committee / Activity Reports:**

Membership: Membership report that was provided by George K7GRS at the Board Meeting was that we now have 280 members, and that dues renewals will be sent out in November.

Training: Technician training is suspended through the summer. The next scheduled class will be held this weekend - October 5/6 . Dave N7HT is currently teaching a General License upgrade class.

VE Report: The next VE Session will be held October 8.

HF Operations: Phil, K7PIA advised that all equipment is operational. New monitors have been installed and custom desks and shelving built. Kudos to Rich, KR7W and Al, N7OMS for their carpentry skills throughout this ongoing remodel project. A new 30 meter vertical dipole has been erected and reports are that it is working satisfactorily.

A clean sweep was accomplished during Salmon Run, with the club garnering 200,700 points on 3 bands with 15 operators participating. A copy of the Salmon Run statistics is filed with these minutes.

Repeater Ops: No adverse conditions were reported with the repeaters. Tim, K7TMW is unable to fulfill the chairmanship of the Repeater Committee after the end of the year. Volunteer(s) needed to help head up this committee.

IT Report: Randy, WB4SPB reported the VHF/UHF computer in the Lou Room is still non-operational. A replacement computer has been donated to the club by Chris, N7CPM. Thanks Chris!

Museum: On behalf of the museum, Randy, WB4SPB reported that the museum operating station participated in the Classic Exchange, and made several QSOs. Remodeling the museum is in progress, with several new tables having been built by Rich, KR7W.

Facilities Mgmt : It was reported that the parking lot gate has been repaired and will be re-installed shortly. Wasps have been noticed invading the siding on the south wall and will be dealt with. The HF power circuitry is still a work in progress.

Prop Mgmt: Red, WB7EC reported surplus property sales in September of \$446 and raffle ticket sales of \$45.

Logger's Bark : PJ, N7PH asked for photos and article ideas for the Bark.

4<sup>th</sup> Weds Activity Night : TBD

**New Business:** None

### **Unfinished Business and Announcements:**

Mike, W7MKE discussed Club of Tacoma participation in the upcoming Pacific Harbor Scout Jamboree Oct 19. He and Steve, AD7VL will be on-site with the scouts. He will circulate additional information prior to



the event to enable club member participation 'on the air'. The club will also host a group of Cub Scouts at the clubhouse on October 19.

State Fair Booth – reports and comments were that the venue was not as suitable as our previous venue in the hobby hall, and severely restricted not only the presentation of ham radio operations, but caused a reduction in traffic to the booth. Thanks to all who participated in manning the booth and to Stephan, AD7AB for his dedicated leadership and guidance.

Salmon Run – Reported under HF Committee report.

Holiday/Awards Banquet to be held December 1, 2019 noon until 3:00 p.m. at the same venue as last year, Eagles Club at 7037 South Pine Street. This will be a pot-luck dinner with meat (turkey, ham etc.) and beverages provided.

**Program:** Our program this month was a 30-minute video of the 2019 Banana Island DXPedition - amazing videos and sounds. Thanks Dave for your ongoing efforts to keep us entertained and enlightened.

**Tuning and Traffic:** None

**Door Prize:** This month's door prize was a t-shirt won by ????

**Raffle Prize:** A SWR meter was won by Red, WB7EC

**Adjournment:** The meeting was adjourned at 1440 PDT

## THE CLUB LINEUP

### CLUB OFFICERS

President: Dave Ellison, W7UUU - w7uuu@w7dk.org

Vice Pres: Mike Mikuchonis, W7XTZ - w7xtz@w7dk.org

Secretary: Mike Finnie, W7MWF - w7mwf@w7dk.org

Treasurer: Steve Dightman, AF7YD - af7yd@w7dk.org

### 5 BOARD MEMBERS

Bruce Hanson, WE7P - we7p@w7dk.org

Paul Matney, W7PFU - w7pfu@w7dk.org

Adam Barbera, W2NCC - w2ncc@w7dk.org

Red Cranefield, WB7EC - wb7ec@w7dk.org

Phil Pia, K7PIA - k7pia@w7dk.org

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**MEMBERSHIP INFO:** FULL (licensed) and ASSOCIATE (non licensed) membership is \$35 per calendar year or \$30 for Licensed Seniors (65 and over). Licensed family members at same address pay \$20 each for the first two and are free for the third, fourth, and so on. Full-time students, licensed or non licensed, up to age 25 are \$20 per year. Note: fees are applicable for the calendar year: Jan to Dec. Lifetime membership is 20 times the yearly fee you are eligible for. Lifetime memberships are calculated based on the FULL and ASSOCIATE rates.

[www.w7dk.org](http://www.w7dk.org) [LINK] - For the latest and most current information on events and activities, visit the Radio Club of Tacoma Website.

### RADIO CLUB REPEATERS

Central Tacoma: 147.280 + PL=103.5

Crawford Mountain 147.380 + PL=103.5 (E of Olympia © 1500 ft ASL)

Central Tacoma: 440.625 + PL=103.5

North Tacoma: 145.21 – PL=141.3